



5.5" Production

Cement Post Job Report

Prepared For: Mr. Mike Schweizer
Prepared Date: 8/31/2017
Job Date: 8/31/2017

PDC Energy, Inc.

McGlothlin Farms 4Y-314

Weld County, CO

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Job Summary

Ticket Number		Ticket Date	
TN#	FL2245	8/31/2017	
COUNTY	COMPANY	API Number	
Weld	PDC Energy, Inc.	05-123-44008	
WELL NAME	RIG	JOB TYPE	
McGlothlin Farms 4Y-314	Ensign 161	Production	
SURFACE WELL LOCATION	O-TEX Field Supervisor	CUSTOMER REP	
SESE 4 - 5N - 64W	Cheal, Sam	John Falton	
EMPLOYEES			
Douglas, Brian		Melgarejo, Eduardo	
Watkins, Robert			
Chapman Goodman, Donald			
WELL PROFILE			
Max Treating Pressure (psi):	4500	Bottom Hole Static Temperature (°F):	210
Bottom Hole Circulating Temperature (°F):		Well Type:	Oil

Open Hole

50

1	Size (in)	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
	8 1/2	1631	14383	1631	6742
2	Size (in)	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)

Casing/Tubing/Drill Pipe

Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
Surface	9 5/8	36	J-55	0	1631	0	1631
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
Production	5 1/2	20	P-110	0	14378	0	6742
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)

CEMENT DATA

Stage 1: From Depth (ft): 0 To Depth (ft): 14378
Type: SingleSlurry
Volume (sacks): 2135 Volume (bbls): 684.4

Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.
100% 35:65:0(POZ:G:GEL)+0.4% ASM-3+0.3% CFR+0.6% C-17+25% Silica Flour	13.5	1.80	8.77

SUMMARY

Preflushes:	30 bbls of SAPP	Calculated Displacement (bbl):	319.1
	10 bbls of Dye	Actual Displacement (bbl):	323
	50 bbls of Weighted Spacer		
Total Preflush/Spacer Volume (bbl):	90	Plug Bump (Y/N):	Yes Bump Pressure (psi): 2680
Total Slurry Volume (bbl):	684.4	Lost Returns (Y/N):	No (if Y, when)
Total Fluid Pumped	1097.4		
Returns to Surface:	Cement 10 bbls		

Job Notes (fluids pumped / procedures / tools / etc.):

Cement production casing - Mixed 50bbls of Weighted Spacer with batch mixer 45min before pressure test. [Weighted spacer (41.2bbls fresh water, 9,942lbs barite, 421lbs C-65, 50gal plexaid 803)], Mixed / pumped 815.8bbls Single Slurry Cement @13.5ppg, Displaced with treated fresh water to bump, Pressured up well to open WSS, Displaced another 5bbls. Job pumped through O-Tex 5 1/2" cement head. Returns pumped through rig choke line to minimize cement channeling. TVD @ 6,742ft / WSS @ 14,375ft / Shoe @ 14,378ft / TD @ 14,383ft. Job performed as per promgam / customer request.

Thank You For Using

O - TEX Pumping

Customer Representative Signature: _____

						CEMENTING JOB LOG						Project Number FL2245		Job Date 8/31/2017			
						State CO		County Weld									
O-Tex Location Brighton, Colorado 303-857-7948						Customer PDC Energy, Inc.											
Lease Name McGlothlin Farms 4Y-314			Well No. 			O-Tex Field Supervisor Cheal, Sam						Customer Representative John Falton			Phone 970-580-5564		
Job Type Production						Man Hours 90						API Number 05-123-44008					
USE THIS FORM TO NOTE ANY ISSUES ENCOUNTERED WITH THE PERFORMANCE OF THIS JOB.																	
THIS MAY INCLUDE TIME AT THE SHOP, ON THE ROAD OR DELAYS WITH DRILLING CONTRACTOR.																	
#																	
DATE		TIME		VOLUME		RATE		PRESS		JOB PROCEDURES							
								200 Tbg.									
8/30/2017		13:00								Leave Yard							
		15:00						50		Arrive at location (requested @1500)							
		15:10								Tailgate meeting (talk about spotting trucks) / sign in							
		15:15						50		Set spill containment / Spot SCM pump units & batch mix unit							
		15:25								Rig in / Test cement mix water							
8/31/2017		0:30						50		Mix weighted spacer with batch mixer							
		1:15								Safety meeting with O-Tex crew / rig crew / third party crew							
		2:15		1 bbl		1.50				550 Fill line							
		2:17								5100 Pressure test iron							
		2:19		10 bbl		7.20				1371 Pump pre-flush (fresh water)							
		2:22		30 bbl		7.30				1336 Pump pre-flush (300lbs SAPP)							
		2:30		10 bbl		7.30				1509 Pump fresh water spacer (Red Dye)							
		2:32		50 bbl		7.30				1500 Pump weighted spacer into SCM unit, then down hole							
		2:40		684.4 bbl		7.20				647 Mix / pump Single Slurry cement							
		4:18								0 Shutdown / wash pump unit / clear line							
		4:27								0 Drop plug							
		4:28		323 bbl		7.50				2050 Displace with treated fresh water							
		5:10				5.00				2070 Slow pump rate to bump plug							
		5:17				5.00				2670 Bump plug							
		5:18								2800 Hold pressure for 5 min.							
		5:23		1 bbl		1.50				4130 Pressure up well to open WSS							
		5:24		5 bbl		4.00				2230 Displace with treated fresh water							
		5:26								0 Check float (2.5bbbls back)							
		6:00								Rig out							
		6:50								AAR / discuss leaving location							
		7:00								Leave location							
JOB CALCULATIONS																	
Cement coverage 0 - 14,378ft																	
TVD @ 6,742ft / WSS @ 14,375ft / Shoe @ 14,378ft / TD @ 14,383ft																	
10bbbls cement back to surface																	
Total fresh water needed for job 885bbbls																	
CASING DATA																	
Surface casing 9 5/8" 36# 0 - 1,631ft. (ann. 0.0479)																	
Production casing 5 1/2" 20# 0 - 14,378ft (cap. 0.0222)																	
ANNULAR DATA																	
OH 8 1/2" 1,631 - 14,383ft. (ann. 0.0408)																	
15% excess for Single Slurry cement (only in open hole)																	
PLEASE NOTE ANY CONTRACTOR ISSUES OR COMMENTS BELOW																	